

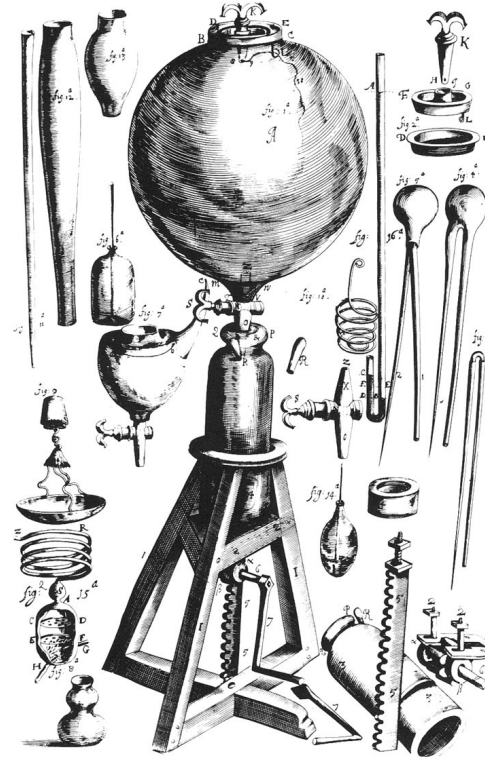
Simple solutions to everyday problems **collecting and visualising data**

Mike Spencer | Corinne Robbie | Ann Kirkwood



What is data science?

- Testing ideas
 - Models
 - Hypotheses
- Reproducibility
 - Testing the ideas of others
 - Open code

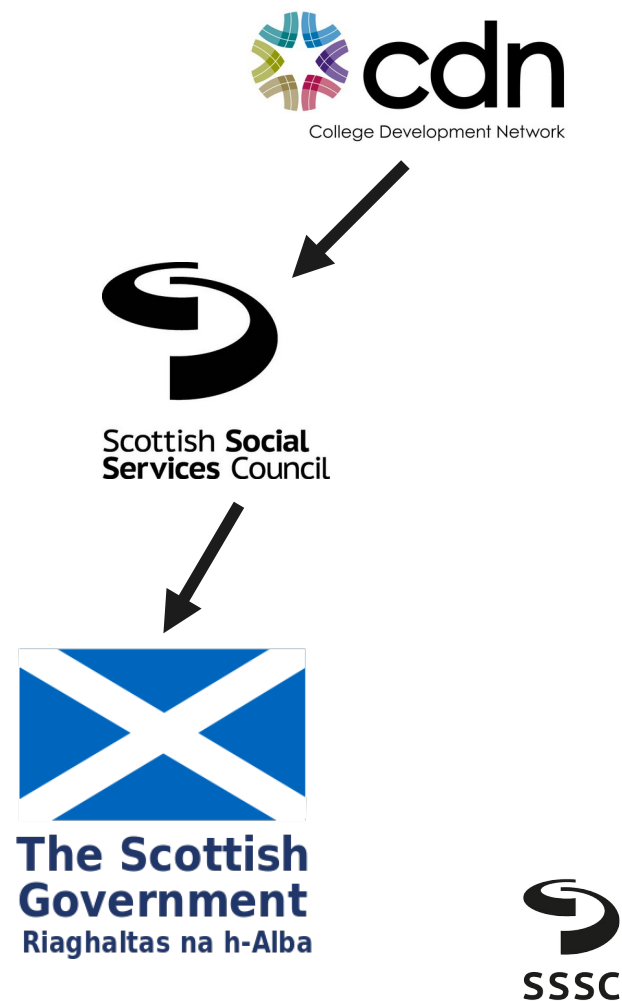


By Robert Boyle - New Experiments Touching the Spring of the Air,
Public Domain, <https://commons.wikimedia.org/w/index.php?curid=2674483>

Application

The problem

- Collate data from 24 colleges
- Quality assure
- Analyse
- Present to central government



Component parts

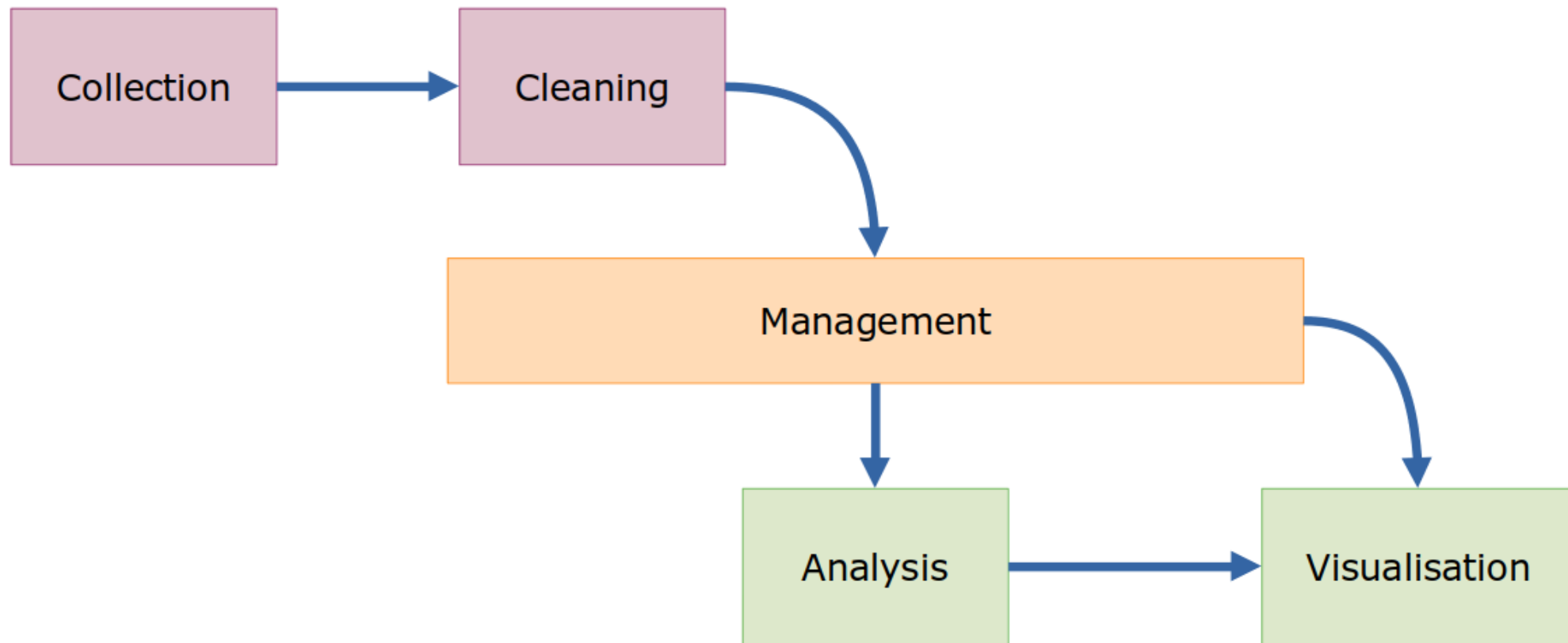
Original

- Table in a Word doc
 - No entry control
- Stored on Teams
- No summary or visualisation

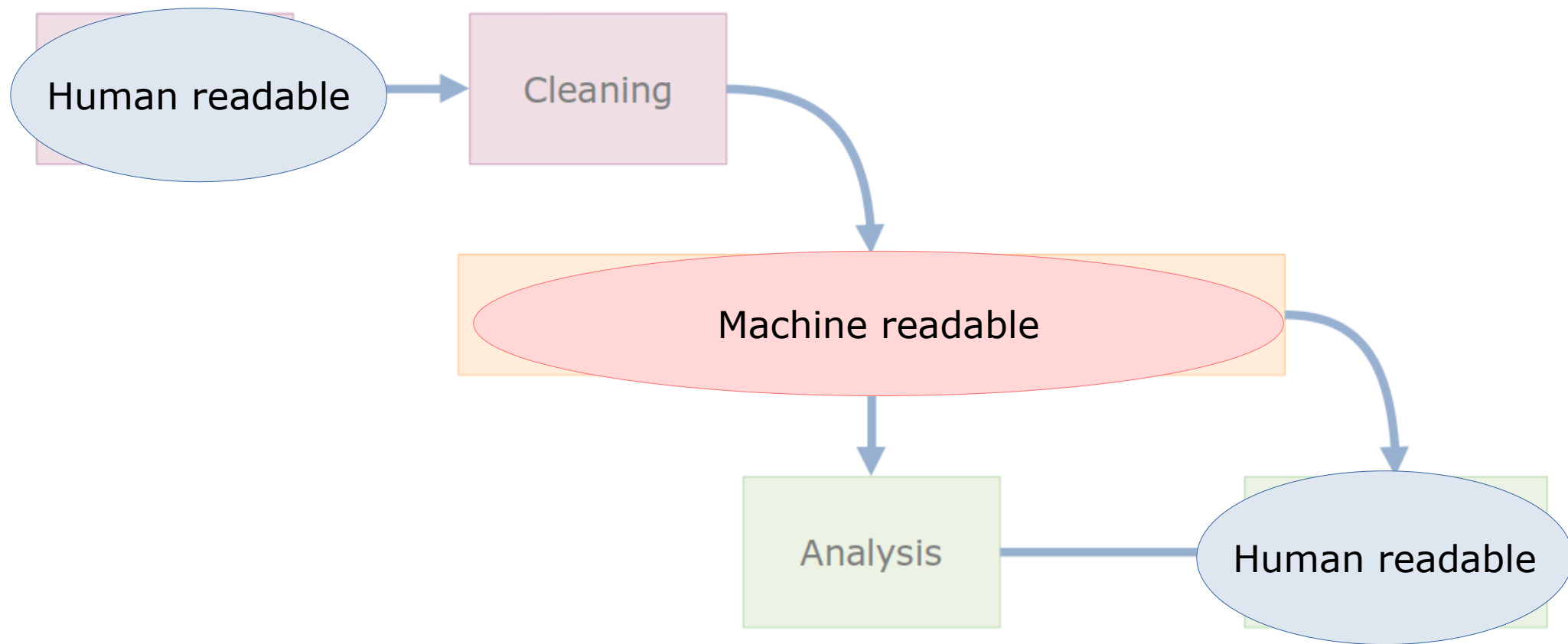
Replacement

- Collection in MS Forms
- ETL in R
- Semi-interactive, web dashboard in R

Data workflow

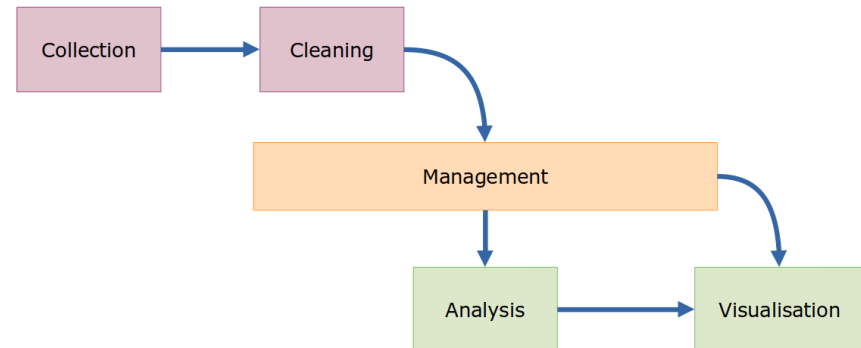


Data workflow



Why separate?

- Automate
 - Saves time/money
 - Reduce human error
- Replace parts of workflow as required
- Reuse tools easily



Results

Student placements in social services

Summary

By College

By Programme ▾

Data Table



About

These data have been collected by the SSSC (<https://www.sssc.uk.com/>) to inform placement requirements on social services programmes accepted for registration by the SSSC.

Many thanks to the staff of Scotland's colleges for submitting data and making this work possible.

Explanation

Not all courses require student placement. The overall number of students enrolled is shown on as "All Students", otherwise enrolled student numbers are for those courses requiring a placement.

The description of course options is:

- Option 1: the student has a placement or is employed in the sector.
- Option 2: the student requires the college to find them a placement.
- Option 3: the student is planning on attending university after their course, and so a practical placement is not required at this stage.

20

Colleges



3443

All Students



2803

Students on practical courses

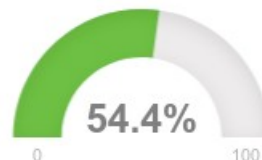


1279

Placements required



Placed



Student placements in social services

Student placements in social services

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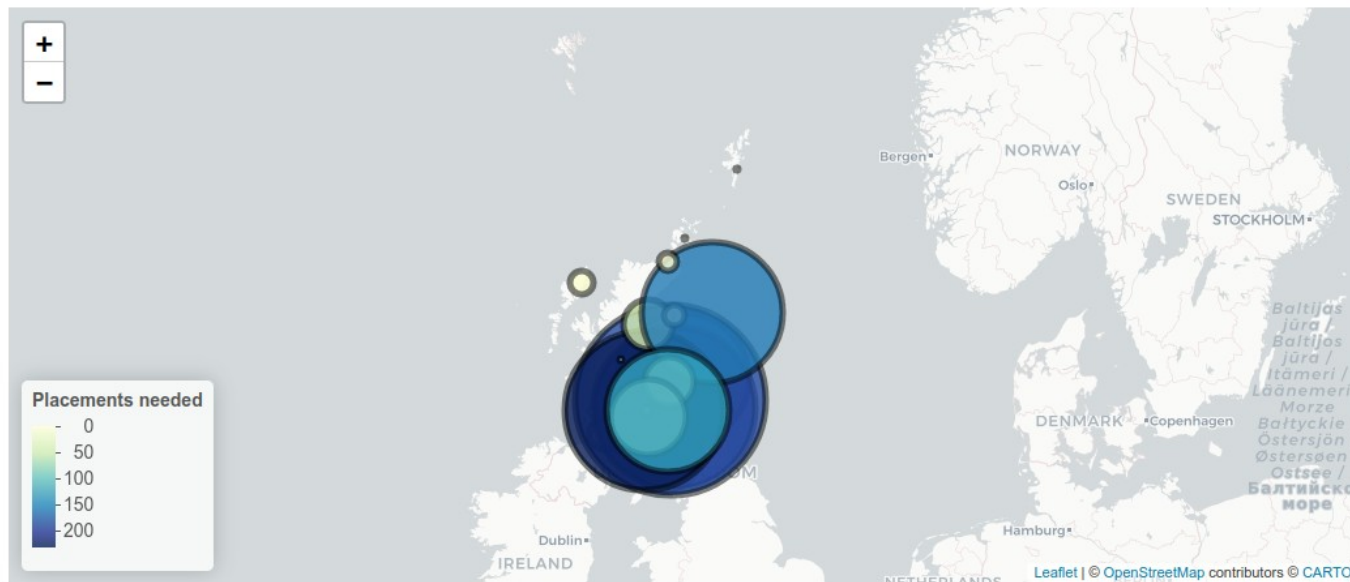
Explanation

Not all courses require student placement shown on as "All Students", otherwise enrolled requiring a placement.

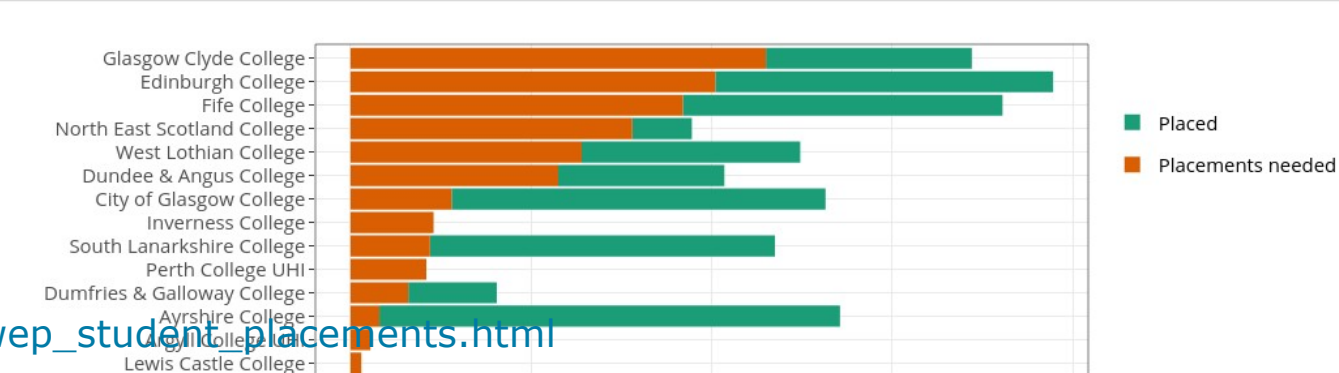
The description of course options is:

- Option 1: the student has a placement
- Option 2: the student requires the college to find a placement
- Option 3: the student is planning on finding a placement themselves so a practical placement is not required

Map of students requiring placements



What proportion of students have placements?



- Easier because:
 - Data structured
 - Entry controlled
- Enables workflow
- Also easier for data entry:
 - More specific
 - Less ambiguous

https://forms.office.com/Pages/ResponsePage.aspx?id=DC...

Placement Provision

These data are being collected by the SSSC (<https://www.sssc.uk.com/>), on behalf of the Scottish Government. They are being used to inform placement requirements on social services programmes accepted for registration by the SSSC. Information will also be shared with the Scottish Funding Council and the Student Awards Agency for Scotland.

Please enter a value for all updates. When you have completed the form, please scroll to the bottom and press submit.

* Required

1. Your name *

Enter your answer

2. Which college are you responding for? *

☐ Argyll College UHI


☐ Ayrshire College

☐ Borders College

☐ City of Glasgow College

☐ Dumfries & Galloway College

☐ Dundee & Angus College



Lessons learned/ing

- Co-design with technical and subject specialists
- Perfect is the enemy of done/working
- Github pages
- Feedback to data suppliers
- https://github.com/SSSC-WI/swep_HNC_placements

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Slides [10.5281/zenodo.4724098](#)

Thank you

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